Figure 7A

```
Consensus   ATGTCgCACcGgAAgTTCGAGCACCCGAGgCAcGGcTCCCTCgGcTTCCTcCCcAggAAGCGcTcCTCcCGcCACCGCGG    80

maize1      ATGTCGCACAGGAAGTTCGAGCACCCGAGGCACGGCTCCCTCGGCTTCCTTCCCAGGAAGCGCTCCTCCCGCCACCGCGG    80
maize2      ATGTCGCACAGGAAGTTCGAGCACCCGAGGCACGGCTCCCTCGGCTTCCTTCCCAGGAAGCGCTCCTCCCGTCACCGCGG    80
sorghum1    ATGTCTCACCGCAAGTTCGAGCACCCGAGGCACGGCTCCCTCGGCTTCCTCCCCAGGAAGCGGTCCTCCCGCCACCGCGG    80
sorghum2    ATGTCGCACCGTAAATTCGAGCACCCGAGGCACGGGTCCCTCAGCTTCCTCCCCAATAAGCGATCCTCCCGCCACCGCGG    80
wheat       ATGTCGCACCGTAAGTTCGAGCACCCGAGGCACGGATCCCTCGGTTTCCTCCCCAGGAAGCGGTGCTCGCGCCACCGCGG    80
barley      ATGTCGCACCGTAAGTTCGAGCACCCGAGACACGGATCCCTCGGTTTCCTCCCCAGGAAGCGTTGCTCGCGCCACCGCGG    80
oat         ----------------------------------------------------------------------------------  0
rice        ATGTCGCACAGGAAGTTCGAGCACCCGAGGCATGGATCCCTCGGCTTCCTCCCGAGGAAGCGCTCCTCCCGCCACCGCGG    80


Consensus   cAAGGTGAAgtCaTTcCCcAggGATGACccaaagAAGcctTGCCAcCTcACtgCcTTccTTGGCTACAAGGCTGGcAtGA   160

maize1      CAAGGTGAAGTCATTTCCCAGGGATGACCCCAAGAAGCCTTGCCATCTCACTGCCTTCCTTGGCTACAAGGCTGGCATGA   160
maize2      CAAGGTGAAGTCATTCCCTAGGGATGACCCCAAGAAGCCTTGCCATCTCACTGCCTTCCTTGGCTACAAGGCTGGCATGA   160
sorghum1    CAAGGTGAAGTCATTCCCCAGGGATGACCCCAAGAAGGCTTGCCACCTCACCGCCTTCCTTGGCTACAAGGCTGGCAYGA   160
sorghum2    AAAGGTGAAATCCTTCCCGAGGGATGACCCAAAGAAGCCCTGCCACCTCACCGCATTTGTTGGCTACAAGGCTGGAATGA   160
wheat       AAAGGTGAAGGCCTTTCCCAGAGATGACCAATCCAAGAAATGCCACCTTACTGCCTTCCTTGGCTACAAGGCTGGGATGA   160
barley      AAAGGTGAAGGCTTTCCCCAGAGATGACCAATCCAAGAAATGCCACCTCACTGCCTTCCTTGGCTACAAGGCTGGCATGA   160
oat         ----------------------------------------------------------------------------------  0
rice        CAAGGTGAAGTCCTTCCCCAAGGATGACGTATCAAAGCCCTGCCACCTTACTTCCTTCGTTGGCTACAAGGCTGGAATGA   160


Consensus   CtCACATTGTgCGTGAGGTtGAgaAGCCtGGaTCcAAgCTcCAcAAGAAGGAaACtTGtGAGGCTGTtACcATcaTtGAg   240

maize1      CTCACATTGTCCGTGAGGTTGAGAAGCCAGGATCCAAACTCCATAAGAAGGAAACTTGTGAGGCTGTTACCATCATTGAA   240
maize2      CTCACATTGTCCGTGAGGTTGAGAAGCCAGGATCCAAACTCCATAAGAAGGAAACTTGTGAGGCTGTTACCATCATTGAA   240
sorghum1    CTCACATTGTGCGTGAGGTCGAGAAGCCTGGATCCAAACTACACAAGAAGGAAACGTGTGAGGCTGTTACCATCATTGAA   240
sorghum2    CACACATTGTGCGTGAGGTGGAGAAGCCTGGCTCCAAGCTCCACAAGAAGGAAACTTGTGAGGCTGTGACTATCATTGAG   240
wheat       CCCACATTGTGCGTGAGGTTGAGAAGCCTGGTTCCAAGCTACACAAGAAGGAGACATGTGAGGCTGTCACCATTGTTGAG   240
barley      CTCACATTGTGCGTGAGGTCGAGAAGCCTGGTTCCAAGCTGCACAAGAAGGAGACATGTGAGGCTGTCACCATTGTTGAG   240
oat         ----------------------ACGAGCCTGGTTCAAAGCTACACAAGAAGGAGACCTGTGAGGCTGTCACCATTGTTGAG    63
rice        CACACATTGTGCGTGAGGTCGAGAAGCCTGGCTCCAAGCTCCACAAGAAGGAAACCTGCGAGGCTGTTACCATCATCGAG   240
```

Figure 7B

```
Consensus   ACcCCtCCtcTtGTcATTGTtGGaCTtGTgGCaTAtGTgAAGACtcCtCGtGGcCTcCGcaCaCtcAACtCTGTcTGGGC   320

maize1      ACCCCTCCTCTTGTCATTGTTGGGCTCGTGGCATATGTGAAGACTCCTCGTGGCCTCCGCACACCCAACTCTGTTTGGGC   320
maize2      ACCCCTCCTCTTGTCATTGTTGGGCTCGTGGCATATGTGAAGACTCCCCGTGGCCTCCGCACACTCAACTCTGTTTGGGC   320
sorghum1    ACCCCTCCTCTGGTCATTGTTGGGCTTGTGGCATATGTGAAGACTSCTCGCGGCCTCCGCACACTCAACACTGTTTGGGC   320
sorghum2    ACCCCTCCCCTTGTCATTGTCGGACTTGTGGCATATGTGAAGACCCCTCGCGGCCTGCGAACCCTCAACTCTGTCTGGGC   320
wheat       ACACCCCCGATTGTTATTGTTGGACTTGTTGCCTATGTGAAGACTCCTCGTGGCCTTCGTACTCTCAACTCTGTCTGGGC   320
barley      ACACCCCCTATTGTTATTGTTGGACTTGTTGCCTATGTGAAGACTCCTCGTGGCCTTCGTACTCTCAACTCTGTCTGGGC   320
oat         ACACCACCAATTGTTATTGTTGGACTTGTTGCCTACGTGAAGACTCCTCGTGGCCTTCGTACTCTTAACACTGTCTGGGC   143
rice        ACCCCTCCGCTTGTCATTGTTGGACTCGTGGCCTATGTCAAGACACCTCGTGGACTTCGCTCTCTCAACTCTGTCTGGGC   320


Consensus   cCAgCAtCTtAGcGAaGAaGTgaGGAGaAGGTTcTACAAGAACTGGTGCAAgAGCAAGAAGAAGGCtTTCaCcAAGTAtG   400

maize1      CCAACATCTTAGCGAAGAAGTGAGGAGAAGGTTCTACAAGAACTGGTGCAAGAGCAAGAAGAAGGCTTTCACAAAGTATG   400
maize2      CCAACATCTTAGCGAAGAAGTGAGGAGAAGGTTCTACAAGAACTGGTGCAAGAGCAAGAAGAAGGCTTTCACAAAGTATG   400
sorghum1    TCAGCATCTTAGCGAAGAAGTTAGGAGAAGGTTCTACAAGAACTGGTGCAAGAGCAAGAAGAAGGCTTTCTCCAAGTATG   400
sorghum2    CCAGCACCTTAGTGAAGAAGTGAGGAGAAGGTTTTACAAGAACTGGTGCAAGAGCAAGAAGAAGGCCTTCACCAAGTACG   400
wheat       ACAGCATCTCAGCGAAGATGTSAGGAGAAGGTTCTACAAGAACTGGTGCAAGAGCAAGAAGAAGGCCTTCACCAAGTATG   400
barley      ACAGCATCTCAGCGAAGATGTGAGGAGAAGGTTCTACAAGAACTGGTGCAAGAGCAAGAAGAAGGCCTTCACCAAGTATG   400
oat         TCAGCATCTCAGTGAAGACGTTAGGAGGAGGTTCTACAAGAACTGGTGCAAGAGCAAGAAGAAGGCTTTCACCAAGTATG   223
rice        CCAGCACCTTAGCGAGGAGGTGCGGAGAAGGTTCTACAAGAACTGGTGCAAAAGCAAGAAGAAGGCTTTCACTAAGTATG   400


Consensus   CtCTcAAgTATGAcAgtGAtGCtGGCAAGAAgGAAATtCAGcTGCAgCTTGAGAAGATGAAGAAgTAtGcttCtgTTgTc   480

maize1      CTCTCAAATATGAAAATGATGCTGGCAAGAAGGAAATTCAGCTGCAGCTTGAGAAGATGAAGAAATATGCTTCTGTTATC   480
maize2      CTCTCAAATATGAAAATGATGCTGGCAAGAAGGAAATTCAGCTGCAGCTTGAGAAGATGAAGAAATATGCTTCTGTTATC   480
sorghum1    CTCTCAAGTATGACAATGATGCTGGCAAGAAGGAAATTCAGCTGCAGCTTGAGAAGATGAAGAAATATGCTTCTGTTGTC   480
sorghum2    CCCTCAAATATGACAGCGACGCAGGCAAGAAAGAAATCCAGTTGCAGCTTGAGAAGATGAAGAAGTATGCTTCAGTTATC   480
wheat       CTCTGAAGTATGACAGTGATGCTGGCAAGAAAGAAATCCAGATGCAGCTTGAGAAGATGAAGAAGTATGCTACTGTTGTC   480
barley      CGCTGAAGTATGACAGTGATGCTGGCAAGAAAGAAATCCAGATGCAGCTTGAGAAGATGAAGAAGTATGCTACTGTTGTC   480
oat         CTCTCAAGTATGACAGTGATGCAGGCAAGAAGGAAATTCAGCTGCAGCTTGAGAAGATGAAGAAGTATGGCACTGTTATC   303
rice        CCCTTAAGTATGACAGTGATGCTGGCAAGAAAGAAATCCAGATGCAACTTGAGAAGATGAAGAAGTACGCATCTATTGTT   480
```

Figure 7C

```
Consensus   CGtGTtATtGCcCAtACcCAGATtAggAAGATGAAgGGttTGAAGCAGAAGAAGGCTCAcCTcATGGAGATcCAGgTCAA   560

maize1      CGTGTCATTGCTCATACCCAGATTAGGAAGATGAAGGGTTTGAAGCAGAAGAAGGCTCACCTGATGGAGATTCAGGTCAA   560
maize2      CGTGTCATTGCTCATACCCAGATTAGGAAGATGAAGGGTTTGAAGCAGAAGAAGGCTCACCTGATGGAGATTCAGGTCAA   560
sorghum1    CGTGTCATTGCCCATACCCAGATTAAGAAGATGAAGGGTTTGAAGCAGAAGAAGGCTCATCTCATGGAGATTCAGGTCAA   560
sorghum2    CGTGTTATCGCCCACACTCAGATTAAAAAGATGAAAGGTTTGAAGCAGAAGAAGGCTCACCTTATGGAGATCCAGGTCAA   560
wheat       CGAGTTATCGCCCATACCCAGATCAGGAAGATGAAGGGGTTGAAGCAGAAGAAGGCTCACCTCATGGAGATCCAGATCAA   560
barley      CGTGTTATTGCCCATACCCAGATCAGGAAGATGAAGGGGCTGAAGCAGAAGAAGGCTCACCTCATGGAGATCCAGATCAA   560
oat         CGAGTTATCGCCCATACCCAGATAAGGAAGATGAAGGGCTTGAAGCAGAAGAAGGCTCACCTGATGGAGATCCAGGTCAA   383
rice        CGTGTTATTGCCCACACTCAGATCAGAAAGATGAAGGGCTTGAAGCAGAAGAAGGCTCACCTCATGGAGATCCAGATCAA   560


Consensus   tGGTGGcACcATtGCtGAcAAGGTgGACTATGGcTACAAaTTcTTTGAGAAgGAagTcCCtgTTGATGCtGTcTTCCAgA   640

maize1      TGGTGGTACCATTGCTGACAAGGTGGACTATGGCTACAAATTTTTTGAGAAAGAGGTCCCTGTTGATGCTGTCTTCCAGA   640
maize2      TGGTGGTACCATTGCTGACAAGGTGGACTATGGCTACAAATTCTTTGAGAAAGAGGTCCCTGTTGATGCTGTCTTCCAGA   640
sorghum1    TGGTGGTACCATTGCTGACAAGGTGGA----------------------------------------------------   587
sorghum2    TGGTGGCACTATAGCAGACAAGGTGGACTATGGTTACAAATTCTTTGAGAAGGAAGTTCCTGTTGATGCTGTGTTCCAGA   640
wheat       TGGTGGCACCATCGCTGACAAGGTCGACTATGGTTACAACTTCTTTGAGAAGGAAGTCCCCATTGATGCTGTATTCCAAA   640
barley      TGGTGGCACCATTGCCGATAAGGTGGACTATGGTTACAACTTCTTTGAGAAGGAAGTCCCCATTGATGCGGTTTTCCAAA   640
oat         TGGTGGCACCATCGCAGACAAGGTGGACTATGGCTACAATTTCTTTGAGAAGGAAGTCCCCATTGATGCTGTCTTCCAGA   463
rice        CGGTGGCACTATCGCCGACAAGGTGGACTATGGCTACAAGTTCTTTGAGAAGGAAATCCCTGTTGATGCAGTCTTCCAGA   640


Consensus   AgGAtGAGATGATTGAcATCATtGGtGTgACcAAgGGtAAgGGtTAtGAaGGTGTgGTcACtCGTTGGGGTGTcACCCGc   720

maize1      AGGATGAGATGATTGACATCATTGGTGTGACCAAAGGTAAAGGTTATGAGGGTGTGGTCACTCGTTGGGGTGTCACCCGC   720
maize2      AGGATGAGATGATTGACATCATTGGTGTGACCAAGGGGAAAGGTTATGAGGGTGTGGTCACTCGTTGGGGTGTCACCCGG   720
sorghum1    ----------------------------------------------------------------------------   587
sorghum2    AGGATGAGATGATTGACATCATTGGAGTCACCAAGGGTAAGGGGTATGAAGGTGTGGTCACTCGTTGGGGTGTTACCCGG   720
wheat       AAGATGAGATGATTGACATCATTGGAGTTACCAAGGGTAAGGGTTATGAAGGTGTTGTGACACGTTGGGGTGTCACCCGT   720
barley      ARGATGAGATGATTGATATCATTGGTGTAACCAAGGGTAAGGGTTATGAAGGTGTTGTGACACGTTGGGGTGTCACCCGC   720
oat         AGGATGAGATGATTGACATCATCGGTGTCACCAAGGGTAAGGGATACGAGGGTGTGGTGACACGTTGGGGTGTCACCCGC   543
rice        AGGACGAGATGATTGACATCATTGGTGTCACTAAGGGTAAGGGTTATGAAGGTGTCGTCACTCGTTGGGGTGTCACCCGC   720
```

Figure 7D

```
Consensus   CTTCCcCGCAAgACCCACAGgGGTCTcCGCAAgGTTGCcTGtATtGGTGCcTGGCATCCgGCtAGGGTgTCcTAcACtGT   800

maize1      CTTCCCCGCAAAACCCACAGGGGTCTCCGCAAAGTTGCTTGTATCGGTGCATGGCATCCGGCTAGGGTCTCCTATACGGT   800
maize2      CTTCCCCGCAAGACCCACAGGGGTCTCCGCAAAGTTGCTTGTATCGGTGCATGGCATCCGGCTAGGGTCTCCTATACGGT   800
sorghum1    ------------------------------------------------------------------------------   587
sorghum2    CTTCCCCGCAAGACCCACAGGGGTCTCCGCAAGGTTGCCTGTATTGGTGCCTGGCATCCAGCTAGGGTGTCGTACACAGT   800
wheat       CTTCCCCGCAAGACCCACAGAGGTCTTCGCAAGGTTGCCTGTATTGGTGCCTGGCATCCTGCTAGGGTGTCCTACACTGT   800
barley      CTTCCCCGCAAGACCCACAGAGGTCTTCGCAAGGTTGCCTGTATTGGTGCCTGGCATCCTGCTAGGGTGTCCTACACTGT   800
oat         CTTCCCCGCAAGACCCACAGAGGTCTCCGCAAGGTTGCCTGCATTGGTGCCTGGCATCCGGCTAGGGTTTCCTACACTGT   623
rice        CTTCCTCGCAAGACCCACAGGGGTCTCCGCAAGGTTGCTTGTATTGGTGCCTGGCATCCAGCCAGGGTGTCCTACACTGT   800


Consensus   TGCcCGtGCTGGTCAGAAtGGaTACCAcCACCGcACTGAGATGAACAAGAAGgTtTACAAGATcGGCAAGgcTGGaCAgG   880

maize1      TGCCCGTGCTGGTCAGAATGGGTACCACCACCGCACTGAGATGAACAAGAAGGTCTACAAGATCGGCAAGGCTGGACAAG   880
maize2      TGCTCGTGCTGGTCAGAATGGGTACCACCACCGCACTGAGATGAACAAGAAGGTTTACAAGATCGGCAAGGCTGGACAAG   880
sorghum1    ------------------------------------------------------------------------------   587
sorghum2    TGCCCGCGCTGGTCAGAATGGATACCATCACCGTACTGAGATGAACAAGAAGGTTTACAAGATCGGCAAGGCTGGACAGG   880
wheat       TGCTCGTGCTGGTCAGAATGGATACCACCACCGAACTGAGATGAACAAGAAGGTCTACAAGATTGGCAAGGTTGGACAGG   880
barley      TGCTCGGGCTGGTCAGAATGGATACCACCACCGGACTGAGATGAACAAGAAGGTGTACAAGATTGGCAAGGTTGGMCAGG   880
oat         TGCCCGTGCTGGTCAGAATGGATACCACCACCGAACTGAGATGAACAAGAAGATTTACAAGATCGGCAAGGTTGGACAGG   703
rice        TGCCCGTGCTGGTCAGAACGGATACCACCACCGCACTGAGATGAACAAGAAGGTTTACAAGATTGGCAAGTCTGGTCAGG   880


Consensus   agaccCAtGatGCCTccACaGAGTTtGACAGGACcGAGAAGGACATCACtCCcATGGGtGGCTTCCCcCAcTAtGGTaTg   960

maize1      GGACCCACGATGCCTCCACAGAGTTTGACAGGACCGAGAAGGACATCACTCCCATGGGTGGCTTCCCCCACTATGGTATC   960
maize2      AGACCCACGATGCCTCCACAGAGTTTGACAGGACTGAGAAGGACATCACTCCCATGGGTGGCTTCCCCCATTATGGTATC   960
sorghum1    ------------------------------------------------------------------------------   587
sorghum2    AGAGCCATGATGCCTCAACTGAGTTTGACAGGACTGAGAAGGACATCACTCCCATGGGTGGCTTCCCCCACTATGGTATT   960
wheat       AAACTCATGATGCCTCTACTGAGTTCGACAGGACCGAGAAGGACATCACTCCGATGGGYGGCTTCCCTCACTATGGTGTG   960
barley      AAACCCATGATGCCTCTACTGAGTTCGACAGGACCGAGAAGGACATCACTCCCATGGGTGGCTTCCCTCACTATGGTGTG   960
oat         AAACTCATGATGCCTCCACAGAGTTCGACAGGACTGAGAAGGACATCACCCCCATGGGTGGCTTCCCCCACTACGGTGTG   783
rice        AGTCTCATGCGGCCTGCACCGAGTTCGACAGGACTGAGAAGGACATCACCCCGATGGGCGGCTTCCCGCACTACGGTGTG   960
```

Figure 7E

```
Consensus   GTgAAgGgtGACTACCTgATGATCAAGGGaTGCTGtGTgGGtCCaAAgAAGaGgGTgGTgACcCTCCGCCAgTCcCTgCT  1040

maize1      GTGAAGGGTGACTACCTGATGATCAAGGGCTGCTGTGTGGGTCCAAAAAAGAGGGTGGTGACCCTCCGCCAGTCCCTCCT  1040
maize2      GTGAAGGGTGACTACCTGATGATCAAGGGCTGCTGTGTGGGTCCAAAGAAGAGGGTGGTGACCCTCCGCCAGTCCCTCCT  1040
sorghum1    ------------------------------------------------------------------------------  587
sorghum2    GTCAAAGGTGACTACCTGATGATCAAGGGTTGCTGCGTTGGCCCCAAGAAGAGGGTGGTGACTCTCCGCCAATCTCTGCT  1040
wheat       GTGAAGGCTGACTACCTGATGATCAAGGGATGCTGTGTCGGCCCCAAGAAGCGGGTGGTGACCCTCCGCCAGTCCCTGCT  1040
barley      GTGAAGGCCGACTACCTGATGATCAAGGGATGCTGTGTCGGGCCAAAGAAGCGtGTGGtGACCCTCCGCCAGTCCCTGCT  1040
oat         GTGAAGGGTGACTACCTCATGATCAAGGGATGCTGCGTTGGCCCGAAGAAGCGTGTGGTGACCCTCCGCCAGTCCCTGCT  863
rice        GTGAAGGGCGACTACCTCATGATCAAGGGTTGCTGCGTCGGTCCGAAGAAGAGAGTCGTCACCCTCCGCCAGTCGCTGCT  1040


Consensus   GAAGCAGACcTCcCGgCTgGCgCTGGAGGAgATCAAGCTCAAGTTcatcGACACcTCgTcCAAGTTcGGGCAcGGtCgcT  1120

maize1      GAAGCAGACTTCCCGGCTGGCGCTGGAGGAGATCAAGCTCAAGTTCATTGACACATCGTCCAAGTTCGGGCACGGTCGCT  1120
maize2      GAAGCAGACTTCCCGGCTGGCGCTGGAGGAGATCAAGCTCAAGTTCATCGACACATCGTCCAAGTTCGGGCACGGTCGCT  1120
sorghum1    ------------------------------------------------------------------------------  587
sorghum2    GAAGCAGACCTCTCGGCTGGCTCTGGAGGAGATCAAGCTCAAGTTCATCGACACCTCGTCCAAGTTCGGGCACGGGCGCT  1120
wheat       GAAGCAGACCTCTCGTCTGGCCCTGGAGGAGATCAAGCTCAAGTTCGTCGACACCTCTTCCAAGTTTGGGCACGGTCGCT  1120
barley      GAAGCAGACCTCTCGTCTCGCACTGGAGGAAATCAAGCTCAAGTTGGKCGACACCTCTTTCAAGTTtGGGCACGGGCCGT  1120
oat         GAAGCAGACCTCCCGTCTGGCCCTGGAGGAGATCAAGCTCAAGTTTGTGGACACCTCTTCCAAGTTCGGGCATGGTCGCT  943
rice        GAAGCAGACCTCGCGGCTCGCCCTGGAGGAGATCAAGCTCAAGTTCATCGACACCTCGTCCAAGTTCGGGCACGGTCGCT  1120

Consensus   TcCAgaccACcGAcGAGAAGCAGAgGTTCTttGGCAAGCtcAAGGCgTgagctgctgcggtgcagcgtaggctcatttat  1200

maize1      TCCAGACTACCGATGAGAAGCAGAGGTTCTTTGGCAAGCTCAAGGCGTAAGGTGCTGCGGTGCAGCGAAGTCCCATTTCT  1200
maize2      TCCAGACTACCGATGAGAAGCAGAGGTTCTTTGGCAAGCTCAAGGCGTAAGGTGCTGCGGTGCAGCGAAGTCCCATTTCT  1200
sorghum1    ------------------------------------------------------------------------------  587
sorghum2    TCCAGACCACAGACGAGAAGCAGAAGTTCTATGGCAAGCAAAAGGCCTGAGCTGCTGCTGGTGTCACTGTCAATGGAAAT  1200
wheat       TCCAGACCACGGACGAGAAGCAGAGGTTCTACGGCAAGCTCAAGGCTTGAGCTGCTGCCCCGCATCATCAGTTRTATCAT  1200
barley      TTCAAGACACGGACGAGAAGCAGAGGTTCTTTGGCAAGCTCAAGGCTGGAGCTGCTGGGCATATHAGTTGGGtCTTTTGT  1200
oat         TCCAGACCACCGACGAGAAGCAGAGGTTCTATGGCAAGCTCAAGGCCTGAACTGCTGGACCGCTGCATCAGTTATATCAT  1023
rice        TCCAGACCACCGACGAGAAGCAGAGGTTCTTCGGCAAGCTCAAGGCCTAGGCCATCAGAATTCAATCGAACCTCACCTGA  1200
```

Figure 7F

```
Consensus   taaattaaacaaactgtgatatttttgtttttattcttgttgtaccaagttttgcagcgagatggttcgagcatggtcgc  1280

maize1      CAAAATCATCAAACTGTGATACTTTTGTTTGTAACCTTGCTGTACCAAGTTTTGTAGCCGGATGGTTCGGGCACGGTCGC  1280
maize2      CAAAATCATCAAACTGTGATACTTTTGTTTGTAACCTTGCTGTACCAAGTTTTGTAGCCGGATGGTTCGGGCACGGTCGC  1280
sorghum1    ------------------------------------------------------------------------------  587
sorghum2    GGAATTGTATTACCTGATAGTATTTTGTTTTTCTTCAGTTTTGTTGGAGATATCAGAAGAACATGTTTGATTTTCTAGTC  1280
wheat       TTTGTCAAAACGAACcATGTGATACTTGRTTACTTCCCCTGCCTAAGTTTTGTACTAGKTGATGTTTTCAGAATCTGGCT  1280
barley      sAAACGAACTTGgAAACcTtGTTACTTtCCtGGCctAAGTTTGAGCtGGGgtGDCAmgAAtCaTCTTmTaTGAAAGGGGc  1280
oat         TTTGTCAAAACGAATATCTGATACTTGGTTCCTTTCCTTGCCCCTAAGTTTTGTAGCTGACTTTTTAAGAATCTGTCCGT  1103
rice        TAGCTTTCCCAGTTTCTGTACTTGTCCTGAGTTTTGTGGCAGATATTTTGAGTACCCAGTTTAAATGCTTTGCTACTCTG  1280


maize1      TT                                                                                1282
maize2      TT                                                                                1282
sorghum1                                                                                      587
sorghum2    TGAGCTACTTCCATTGCGGATGATTGATATTGATATTATTGCAAATTCTG                                 1330
wheat       CATCTATGAATTCTTCGTGTCATGTGCTAYTGTTATTGTGATTTAGCTGTTGAAACCTMGTGCG                  1344
barley      atGGGCyrTGDGTTTGGGaaTwAAAATDDGGAAAAAAAAAA                                         1319
oat         CTATGAATTCTTGTCATGTGCTAAAAAAAAAAAAAAAAAAA                                         1144
rice        AGCTGCTGGTGCTGCGGATGATCAAACTGTTGAGATTTATGAATTTTGAACTCGATAGTTATGTTTT               1347
```

FIGURE 8A

```
                                 *    * *          * *    ** *     *
maize       MSHRKFEHPRHGSLGFLPRKRSSRHRGKVKSFPRDDPKKPCHLTAF     46
sorghum     MSHRKFEHPRHGSLSFLPNKRSSRHRGKVKSFPRDDPKKPCHLTAF
wheat       MSHRKFEHPRHGSLGFLPRKRCSRHRGKVKAFPRDDQSKKCHLTAF
barley      MSHRKFEHPRHGSLGFLPRKRCSRHRGKVKAFPRDDQSKKCHLTAF
oat         ------------------------------------------------
rice        MSHRKFEHPRHGSLGFLPRKRSSRHRGKVKSFPKDDVSKPCHLTSF

            *              * *                    *     *
maize       LGYKAGMTHIVREVEKPGSKLHKKETCEAVTIIETPPLVIVGLVAY     92
sorghum     VGYKAGMTHIVREVEKPGSKLHKKETCEAVTIIETPPLVIVGLVAY
wheat       LGYKAGMTHIVREVEKPGSKLHKKETCEAVTIVETPPIVIVGLVAY
barley      LGYKAGMTHIVREVEKPGSKLHKKETCEAVTIVETPPIVIVGLVAY
oat         -------------WHEPGSKLHKKETCEAVTIVETPPIVIVGLVAY
rice        VGYKAGMTHIVREVEKPGSKLHKKETCEAVTIIETPPLVIVGLVAY

                     *              *                      *
maize       VKTPRGLRTLNSVWAQHLSEEVRRRFYKNWCKSKKKAFTKYALKYE   138
sorghum     VKTPRGLRTLNSVWAQHLSEEVRRRFYKNWCKSKKKAFTKYALKYD
wheat       VKTPRGLRTLNSVWAQHLSEDVRRRFYKNWCKSKKKAFTKYALKYD
barley      VKTPRGLRTLNSVWAQHLSEDVRRRFYKNWCKSKKKAFTKYALKYD
oat         VKTPRGLRTLNTVWAQHLSEDVRRRFYKNWCKSKKKAFTKYALKYD
rice        VKTPRGLRSLNSVWAQHLSEEVRRRFYKNWCKSKKKAFTKYALKYD

            *          *          ****          *
maize       NDAGKKEIQLQLEKMKKYASVIRVIAHTQIRKMKGLKQKKAHLMEI   184
sorghum     SDAGKKEIQLQLEKMKKYASVIRVIAHTQIKKMKGLKQKKAHLMEI
wheat       SDAGKKEIQMQLEKMKKYATVVRVIAHTQIRKMKGLKQKKAHLMEI
barley      SDAGKKEIQMQLEKMKKYATVVRVIAHTQIRKMKGLKQKKAHLMEI
oat         SDAGKKEIQLQLEKMKKYGTVIRVIAHTQIRKMKGLKQKKAHLMEI
rice        SDAGKKEIQMQLEKMKKYASIVRVIAHTQIRKMKGLKQKKAHLMEI

             *                  *      * *[
maize       QVNGGTIADKVDYGYKFFEKEVPVDAVFQKDEMIDIIGVTKGKGYE   230
sorghum     QVNGGTIADKVDYGYKFFEKEVPVDAVFQKDEMIDIIGVTKGKGYE
wheat       QINGGTIADKVDYGYNFFEKEVPIDAVFQKDEMIDIIGVTKGKGYE
barley      QINGGTIADKVDYGYNFFEKEVPIDAVFQKDEMIDIIGVTKGKGYE
oat         QVNGGTIADKVDYGYNFFEKEVPIDAVFQKDEMIDIIGVTKGKGYE
rice        QINGGTIADKVDYGYKFFEKEIPVDAVFQKDEMIDIIGVTKGKGYE

maize       GVVTRWGVTRLPRKTHRGLRKVACIGAWHPARVSYTVARAGQNGYH   276
sorghum     GVVTRWGVTRLPRKTHRGLRKVACIGAWHPARVSYTVARAGQNGYH
wheat       GVVTRWGVTRLPRKTHRGLRKVACIGAWHPARVSYTVARAGQNGYH
barley      GVVTRWGVTRLPRKTHRGLRKVACIGAWHPARVSYTVARAGQNGYH
oat         GVVTRWGVTRLPRKTHRGLRKVACIGAWHPARVSYTVARAGQNGYH
rice        GVVTRWGVTRLPRKTHRGLRKVACIGAWHPARVSYTVARAGQNGYH
```

FIGURE 8B

```
                        ]*      *    * * *                          *
maize       HRTEMNKKVYKIGKAGQETHDASTEFDRTEKDITPMGGFPHYGIVK    322
sorghum     HRTEMNKKVYKIGKAGQESHDASTEFDRTEKDITPMGGFPHYGIVK
wheat       HRTEMNKKVYKIGKVGQETHDASTEFDRTEKDITPMGGFPHYGVVK
barley      HRTEMNKKVYKIGKVGQETHDASTEFDRTEKDITPMGGFPHYGVVK
oat         HRTEMNKKIYKIGKVGQETHDASTEFDRTEKDITPMGGFPHYGVVK
rice        HRTEMNKKVYKIGKSGQESHAACTEFDRTEKDITPMGGFPHYGVVK

            *                                              **   *
maize       GDYLMIKGCCVGPKKRVVTLRQSLLKQTSRLALEEIKLKFIDTSSK    368
sorghum     GDYLMIKGCCVGPKKRVVTLRQSLLKQTSRLALEEIKLKFIDTSSK
wheat       ADYLMIKGCCVGPKKRVVTLRQSLLKQTSRLALEEIKLKFVDTSSK
barley      ADYLMIKGCCVGPKKRVVTLRQSLLKQTSRLALEEIKLKLXDTSFK
oat         GDYLMIKGCCVGPKKRVVTLRQSLLKQTSRLALEEIKLKFVDTSSK
rice        GDYLMIKGCCVGPKKRVVTLRQSLLKQTSRLALEEIKLKFIDTSSK

                 * *       * * *
maize       FGHGRFQTTDEKQRFFGKLKA                          389
sorghum     FGHGRFQTTDEKQKFYGKQKA
wheat       FGHGRFQTTDEKQRFYGKLKA
barley      FGHGPFQDTDEKQRFFGKLKA
oat         FGHGRFQTTDEKQRFYGKLKA
rice        FGHGRFQTTDEKQRFFGKLKA
```

FIGURE 9